'615 Claim number	Claim Term	The OpenView (printed publication and public use).
	domain monitors within the enterprise network.	
\$	The method of claim 41, wherein the plurality of domain monitors within the enterprise network establish peer-to-peer relationships with one another.	See '203 claim 11
4	A computer-automated method of hierarchical event monitoring and analysis within an enterprise network comprising:	See '615 claim 1
	deploying a plurality of network monitors in the enterprise network, wherein at least one of the network monitors is deployed at a router;	"To start a discovery, you need to know some information about your own network and the networks you want Autodiscovery to search. To run an IP discovery, you must provide the following information: The IP address and community name for your default gateway or router if present." (2-2) [SYM_P_0080966]
		"Devices in the network are displayed on maps. Devices and subnetworks can be organized into submaps to suit your needs. You can create separate submaps of devices grouped by device function, network function, network organization, or corporate organization. You can use the maps to manage your network from a single display even when the network includes devices from different manufacturers. Programs that manage hubs, routers, servers, and other network devices can run in the background. Changes in network status are displayed on network maps with icons representing devices. Color is used to indicate device status. Submaps allow you to create several views of your network to simplify management. You can add meaningful graphics such as geographic maps and floor plans as backgrounds for your map to provide "real world" visual references for your network." (1-2) [SYM_P_0080958]
		"The Component symbol set contains various network components such as hubs, routers, and multiplexers. OpenView applications can add symbols or delete symbols from the standard set." (3-14) [SYM_P_0080996]

Chaim Lerm (printed publication and public use)	"Implicit in the SNMP architectural model is a collection of network management stations and network elements. Network management stations execute management applications which monitor and control network elements. Network elements are devices such as hosts, gateways, terminal servers, and the like, which have management agents responsible for performing the network management functions requested by the network management stations. The Simple Network Management Protocol (SNMP) is used to communicate management information between the network management stations and the agents in the network elements." (RFC 1157 p. 4)	"Upon receiving a subtree, the enterprise may, for example, define new MIB objects in this subtree. In addition, it is strongly recommended that the enterprise will also register its networking subsystems under this subtree, in order to provide an unambiguous identification mechanism for use in management protocols. For example, if the "Flintstones, Inc." enterprise produced networking subsystems, then they could request a node under the enterprises subtree from the Internet Assigned Numbers Authority. Such a node might be numbered:	1.3.6.1.4.1.42	The "Flintstones, Inc." enterprise might then register their "Fred Router" under the name of:	1,3,6,1,4,1,42,1,1" (RFC 1155 p. 6) [SYM_P_0501017]	"See also the Host and Gateway Requirements RFCs for more specific information on the applicability of this standard." (RFC 1155 p. 1) [SYM_P_0501013]	"sysServices OBJECT-TYPE
i 615 Claim umber			<u></u>				

. 5615 Claim	Claim liern	. HP OpenView (printed publication and public use)
		layer functionality
		l physical (e.g., repeaters) 2. datalink/subnetwork (e.g., bridges)
		3 internet (e.g., IP gateways)
		4 end-to-end (e.g., IP nosts) 7 annifications (e.g., mail relays)
		difference (a.E.) man (a.E.)
		For systems including OSI protocols, layers 5 and 6 may also be counted." (RFC 1213 p. 14) [SYM P 0501155-SYM P 0501156]
		"ipForwarding OBJECT-TYPE SYNTAX INTEGER { forwarding(1) acting as a pateway
		not-forwarding(2) NOT acting as a gateway {" (RFC 1213 p. 25) [SYM_P_0501165]
		Offen thece
		"Remote network monitoring devices are instruments that exist for the purpose of managing a network." Often are set remote probes are stand-alone devices An organization may employ many of these devices, one per network
		segment, to manage its internet." (RFC 1271 p. 3) [SYM_P_0501208]
	detecting, by the network monitors, suspicious	See '615 claim 1
	network activity based on analysis of the network traffic data;	
	generating, by the monitors, reports of said	See '615 claim 1
	Suspicious acuvity, and	0 0 x (3 £ x 10 in 1
	automatically receiving and integrating the	See 013 claim t

	Claim Term	HP Open View (printed publication and public use)
This per	reports of suspicious activity, by one or more	
45	The method of claim 44, wherein said	See '203 claim 2
	integrating comprises correlating intrusion reports reflecting underlying commonalities.	
46	The method of claim 44, wherein said	See '203 claim 3
	integrating further comprises invoking	
47	The method of claim 44, wherein the plurality	See '203 claim 4
	of network monitors include an API for	
	encapsulation of monitor functions and	
48	The method of claim 44, wherein said network	See '615 claim 1
2	traffic data is selected from one or more of the	
	following categories: {network packet data	
	transfer commands, network packet data	
	transfer errors, network packet data volume,	
	network connection requests, network	
	connection denials, error codes included in a	
	network packet}.	
49	The method of claim 44, wherein said	See '203 claim 7
	deploying the network monitors includes	
	placing a plurality of service monitors among	
	multiple domains of the enterprise network.	
50	The method of claim 49, wherein said	See '203 claim 8
	receiving and integrating is performed by a	

Cuit Cuin minita	Claim Term	HP OpenView (printed publication and public use)
	domain monitor with respect to a plurality of service monitors within the domain monitor's associated network domain.	
21	The method of claim 44, wherein said deploying the network monitors includes deploying a plurality of domain monitors	See *203 claim 9
	within the enterprise network, each domain monitor being associated with a corresponding domain of the enterprise network.	
25	The method of claim 51, wherein said receiving and integrating is performed by an enterprise monitor with respect to a plurality of domain monitors within the enterprise	See '203 claim 10
23	The method of claim 51, wherein the plurality of domain monitors within the enterprise network establish peer-to-peer relationships with one another.	Sec '203 claim 11
\$	A computer-automated method of hierarchical event monitoring and analysis within an enterprise network comprising:	See '615 claim I
	deploying a plurality of network monitors in the enterprise network, wherein at least one of the network monitors is deployed at a firewall;	103: SunScreen Firewall. See SunScreen EFS Configuration and Management Guide, Release 1.1 (June 1997) [SUN_0000501-856].

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HP OpenView for Windows User Guide "HP OpenView"

HP OpenView (printed publication and public use) "To start a discovery, you need to know some information about your own network and the networks you want Aundiscovery to search. To run an IP discovery, you must provide the following information:	The IP address and community name for your default gateway or router if present." (2-2) [SYM_P_0080966] "Devices in the network are displayed on maps. Devices and subnetworks can be organized into submaps to suit	your needs. You can create separate submaps of devices grouped by device function, network function, network from a single display even organization, or corporate organization. You can use the maps to manage your network from a single display even when the network includes devices from different manufacturers. Programs that manage hubs, routers, servers, and other network devices can run in the background. Changes in network status are displayed on network maps with icons representing devices. Color is used to indicate device status. Submaps allow you to create several views of icons representing devices.	your network to simplify management. For can and incaming in Engines occur 25 ccs. [SYM_P_0080958] as backgrounds for your map to provide "real world" visual references for your network." (1-2) [SYM_P_0080958] "The Component symbol set contains various network components such as hubs, routers, and multiplexers. OpenView applications can add symbols or delete symbols from the standard set." (3-14) [SYM_P_0080996]	"Implicit in the SNMP architectural model is a collection of network management stations and network elements. Network management stations execute management applications which monitor and control network elements. Network elements are devices such as hosts, gateways, terminal servers, and the like, which have management agents responsible for performing the network management functions requested by the network management stations. The Simple Network Management Protocol (SNMP) is used to communicate management information between the network management stations and the agents in the network elements." (RFC 1157 p. 4)
.615. Claim Term.				

HP OpenView. (printed publication and public use) "Upon receiving a subtree, the enterprise may, for example, define new MIB objects in this subtree. In addition, it is strongly recommended that the enterprise will also register its networking subsystems under this subtree, in order to provide an unambiguous identification mechanism for use in management protocols. For example, if the "Flintstones, Inc." enterprise produced networking subsystems, then they could request a node under the enterprises subtree from the Internet Assigned Numbers Authority. Such a node might be numbered:	1.3.6.1.4.1.42	The "Flintstones, Inc." enterprise might then register their "Fred Router" under the name of:	13.6.1.4.1.42.1.1" (RFC 1155 p. 6) [SYM_P_0501017]	"See also the Host and Gateway Requirements RFCs for more specific information on the applicability of this standard." (RFC 1155 p. 1) [SYM_P_0501013]	"sysServices OBJECT-TYPE	1 physical (e.g., repeaters) 2 datalink/subnetwork (e.g., bridges) 3 internet (e.g., IP gateways) 4 end-to-end (e.g., IP hosts) 7 applications (e.g., mail relays)	For systems including OSI protocols, layers 5 and 6 may also be counted." (RFC 1213 p. 14) [SYM P 0501155-SYM P 0501156]
Glaim Term number							

Filed 06/30/2006

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Glaim,	Claim Term: 2 . g	HP OpenView (printed publication and public use)
		"ipForwarding OBJECT-TYPE SYNTAX INTEGER { forwarding(1), acting as a gateway not-forwarding(2) NOT acting as a gateway }" (RFC 1213 p. 25) [SYM_P_0501165]
a statutoro		"Remote network monitoring devices are instruments that exist for the purpose of managing a network. Often these remote probes are stand-alone devices An organization may employ many of these devices, one per network segment, to manage its internet." (RFC 1271 p. 3) [SYM_P_0501208]
	detecting, by the network monitors, suspicious network activity based on analysis of network traffic data:	See '615 claim 1
	generating, by the monitors, reports of said suspicious activity; and	See '615 claim 1
	automatically receiving and integrating the reports of suspicious activity, by one or more hierarchical monitors.	See '615 claim 1
59	The method of claim 64, wherein said integrating comprises correlating intrusion reports reflecting underlying commonalities.	See '203 claim 2
99	The method of claim 64, wherein said integrating further comprises invoking countermeasures to a suspected attack.	See '203 claim 3
	The method of claim 64, wherein the plurality	See '203 claim 4

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. '615. Claim.	Claim Term	HP OpenView (printed publication and public use)
	of network monitors include an API for	
	encapsulation of monitor functions and	
	integration of third-party tools.	
89	The method of claim 64, wherein said network	See '615 claim 1
	traffic data is selected from one or more of the	
	following categories: {network packet data	
	transfer commands, network packet data	
	transfer errors, network packet data volume,	
	network connection requests, network	
	connection denials, error codes included in a	
	network packet}.	
69	The method of claim 64, wherein said	See '203 claim 7
	deploying the network monitors includes	
	placing a plurality of service monitors among	
····	multiple domains of the enterprise network.	
70	The method of claim 69, wherein said	See '203 claim 8
	receiving and integrating is preformed by a	
	domain monitor with respect to a plurality of	
	service monitors within the domain monitor's	
	associated network domain.	
71	The method of claim 64, wherein said	See '203 claim 9
	deploying the network monitors includes	
	deploying a plurality of domain monitors	
	within the enterprise network, each domain	
	monitor being associated with a corresponding	
	domain of the enterprise network.	

. 395 1965	Claim Texm	HP OpenView (printed publication and public use)
72	The method of claim 71, wherein said receiving and integrating is performed by an enterprise monitor with respect to a plurality of domain monitors within the enterprise network.	See '203 claim 10
73	The method of claim 71, wherein the plurality of domain monitors within the enterprise network establish peer-to-peer relationships with one another.	Sec '203 claim 11
84	An enterprise network monitoring system comprising:	See '615 claim 1
	a plurality of network monitors deployed within an enterprise network, wherein at least one of the network monitors is deployed at one	"To start a discovery, you need to know some information about your own network and the networks you want. Autodiscovery to search. To run an IP discovery, you must provide the following information: The IP address and community name for your default gateway or router if present." (2-2) [SYM_P_0080966]
	or more of the following labilities of the enterprise network: {gateways, routers, proxy servers, firewalls}, said plurality of network monitors detecting suspicious network activity based on analysis of network traffic data;	"Devices in the network are displayed on maps. Devices and subnetworks can be organized into submaps to suit your needs. You can create separate submaps of devices grouped by device function, network function, network organization. You can use the maps to manage your network from a single display even when the network includes devices from different manufacturers. Programs that manage hubs, routers, servers, and other network devices can run in the background. Changes in network status are displayed on network maps with icons representing devices. Color is used to indicate device status. Submaps allow you to create several views of
		your network to simplify management. You can add meaningful graphics such as geographic maps and floor plans your network to simplify management. You can add meaningful graphics such as geographic maps and floor plans as backgrounds for your map to provide "real world" visual references for your network." (1-2) [SYM_P_0080958]
d		"The Component symbol set contains various network components such as hubs, routers, and multiplexers.

HP OpenView (printed publication and public use) OpenView applications can add symbols or delete symbols from the standard set." (3-14) [SYM_P_0080996]	"Implicit in the SNMP architectural model is a collection of network management stations and network elements. Network management stations execute management applications which monitor and control network elements. Network elements are devices such as hosts, gateways, terminal servers, and the like, which have management agents responsible for performing the network management functions requested by the network management stations. The Simple Network Management Protocol (SNMP) is used to communicate management information between the network management stations and the agents in the network elements." (RFC 1157 p. 4)	"Upon receiving a subtree, the enterprise may, for example, define new MIB objects in this subtree. In addition, it is strongly recommended that the enterprise will also register its networking subsystems under this subtree, in order to provide an unambiguous identification mechanism for use in management protocols. For example, if the "Flintstones, Inc." enterprise produced networking subsystems, then they could request a node under the enterprises subtree from the Internet Assigned Numbers Authority. Such a node might be numbered:	1.3.6.1.4.1.42	The "Flintstones, Inc." enterprise might then register their "Fred Router" under the name of:	1.3.6.1.4.1.42.1.1" (RFC 1155 p. 6) [SYM_P_0501017]	"See also the Host and Gateway Requirements RFCs for more specific information on the applicability of this standard." (RFC 1155 p. 1) [SYM_P_0501013]
Claim Term						

HP OpenView (printed publication and public use) "sysServices OBJECT-TYPE	1 physical (e.g., repeaters) 2 datalink/subnetwork (e.g., bridges) 3 internet (e.g., IP gateways) 4 end-to-end (e.g., IP hosts) 7 applications (e.g., mail relays)	For systems including OSI protocols, layers 5 and 6 may also be counted." (RFC 1213 p. 14) [SYM_P_0501155-SYM_P_0501156]	"ipForwarding OBJECT-TYPE SYNTAX INTEGER { forwarding(1), — acting as a gateway not-forwarding(2) NOT acting as a gateway }" (RFC 1213 p. 25) [SYM_P_0501165]	"Remote network monitoring devices are instruments that exist for the purpose of managing a network. Often these remote probes are stand-alone devices An organization may employ many of these devices, one per network segment, to manage its internet." (RFC 1271 p. 3) [SYM_P_0501208]	See '615 claim 1	See '615 claim 1
1615 Claim e numhera					said network monitors generating reports of said susnicious activity; and	one or more hierarchical monitors in the enterprise network, the hierarchical monitors

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Claim		(printed publication and public use)
	30	
	the reports of suspicious activity.	
85	The system of claim 84, wherein the	See '203 claim 2
	integration comprises correlating intrusion	
	reports reflecting underlying commonalities.	
98	The system of claim 84, wherein the	See '203 claim 3
	integration further comprises invoking	
	countermeasures to a suspected attack.	
87	The system of claim 84, wherein the plurality	See '203 claim 4
	of network monitors include an application	
	programming interface (API) for encapsulation	
	of monitor functions and integration of third-	
	party tools.	
88	The system of claim 84, wherein said network	See '615 claim 1
	traffic data is selected from one or more of the	
********	following categories: {network packet data	
	transfer commands, network packet data	
6 W	transfer errors, network packet data volume,	
	network connection requests, network	
	connection denials, error codes included in a	
	network packet}.	
86	The system of claim 84, wherein the plurality	See '203 claim 7
	of network monitors includes a plurality of	
	service monitors among multiple domains of	
	the enterprise network.	
96	The system of claim 89, wherein a domain	See '203 claim 8

HP OpenView (printed publication and public use)			See '203 claim 9			TO A	Sec '203 claim 10		See '203 claim 11		
The second second second	i	associated network domain is adapted to automatically receive and integrate the reports	ity	of network monitors include a plurality of domain monitors within the enterprise	network, cach domain monitor being associated with a corresponding domain of the	-	191, wherein an enterprise with a plurality of domain	monitors is adapted to automatically receive and integrate the renorts of suspicious activity.	 	of domain monitors within the chief prise, network interface as a plurality of peer-to-peer	relationships with one another.
:615 Claim			91				92		93		ws